

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/037793

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/59 A61K38/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL 4 March 2000 (2000-03-04), XP002328704 retrieved from EBI Database accession no. U51644.1 abstract	1-4, 14-16
Y	-& DATABASE UniProt 1 October 1996 (1996-10-01), XP002328703 retrieved from EBI Database accession no. P54828 abstract	9-13, 19-54
X	DATABASE EMBL 9 May 2003 (2003-05-09), XP002328706 retrieved from EBI Database accession no. AF160250.1 abstract	5-8,17, 18
Y		9-13, 19-54
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

19 May 2005

22/06/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	<p>-& DATABASE UniProt 16 October 2001 (2001-10-16), XP002328705 retrieved from EBI Database accession no. Q9XSW8 abstract</p> <p>-----</p> <p>Y NARAYAN P ET AL: "FUNCTIONAL EXPRESSION OF YOKED HUMAN CHORIONIC GONADOTROPIN IN BACULOVIRUS-INFECTED INSECT CELLS" MOLECULAR ENDOCRINOLOGY, BALTIMORE, MD, US, vol. 9, no. 12, 1 December 1995 (1995-12-01), pages 1720-1726, XP000675344 ISSN: 0888-8809 Fig. 3 Discussion the whole document</p> <p>-----</p> <p>A NGUYEN L Q ET AL: "CLONING OF THE CAT TSH RECEPTOR AND EVIDENCE AGAINST AN AUTOIMMUNE ETIOLOGY OF FELINE HYPERTHYROIDISM" ENDOCRINOLOGY, BALTIMORE, MD, US, vol. 143, no. 2, 2002, pages 395-402, XP001150708 ISSN: 0013-7227</p> <p>-----</p> <p>A US 6 284 491 B1 (WONDISFORD FREDRIC E ET AL) 4 September 2001 (2001-09-04)</p> <p>-----</p> <p>A US 5 196 513 A (RYAN ET AL) 23 March 1993 (1993-03-23)</p> <p>-----</p> <p>A US 6 365 127 B1 (KOURIDES IONE A ET AL) 2 April 2002 (2002-04-02)</p> <p>-----</p> <p>A US 5 840 566 A (KOURIDES ET AL) 24 November 1998 (1998-11-24)</p> <p>-----</p> <p>A US 6 114 144 A (KOURIDES ET AL) 5 September 2000 (2000-09-05)</p> <p>-----</p> <p>T DATABASE EMBL 19 April 2005 (2005-04-19), XP002328707 retrieved from EBI Database accession no. AY972823 abstract</p> <p>-----</p> <p>T DATABASE EMBL 19 April 2005 (2005-04-19), XP002328708 retrieved from EBI Database accession no. AY972824 abstract</p> <p>-----</p>	9-13, 19-54

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International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 34-36 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6284491	B1	04-09-2001	US 6117991 A		12-09-2000
			US 2004132137 A1		08-07-2004
			US 2001053538 A1		20-12-2001
			AU 648014 B2		14-04-1994
			AU 4848090 A		24-08-1990
			AU 673866 B2		28-11-1996
			AU 5390294 A		31-03-1994
			CA 2045131 A1		12-07-1990
			EP 0453482 A1		30-10-1991
			JP 4501802 T		02-04-1992
			WO 9008528 A1		09-08-1990
US 5196513	A	23-03-1993	NONE		
US 6365127	B1	02-04-2002	US 6114144 A		05-09-2000
			US 5840566 A		24-11-1998
			US 2003198596 A1		23-10-2003
			CA 1310286 C		17-11-1992
			EP 0228604 A2		15-07-1987
			JP 62282588 A		08-12-1987
US 5840566	A	24-11-1998	US 2003198596 A1		23-10-2003
			US 6365127 B1		02-04-2002
			US 6114144 A		05-09-2000
			CA 1310286 C		17-11-1992
			EP 0228604 A2		15-07-1987
			JP 62282588 A		08-12-1987
US 6114144	A	05-09-2000	US 5840566 A		24-11-1998
			US 2003198596 A1		23-10-2003
			US 6365127 B1		02-04-2002
			CA 1310286 C		17-11-1992
			EP 0228604 A2		15-07-1987
			JP 62282588 A		08-12-1987